



# National Weather Service

## Storm Data and Unusual Weather Phenomena



April 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### IOWA, Central

Greene County									
2 S Rippey	19	1828CST			0	0			Hail(0.75)
Grundy County									
1 N Reinbeck	19	2026CST			0	0			Hail(0.75)
Tama County									
1 NNE Gladbrook	19	2051CST			0	0			Hail(0.75)
Carroll County									
Arcadia	19	2123CST			0	0			Hail(0.75)
Audubon County									
4 S Audubon	19	2136CST			0	0	1K		Hail(0.88)
Marshall County									
Gilman	20	0200CST			0	0	3K		Lightning

Moist and unstable air was in place over Iowa as a cold front dropped southeast into the state. Surface dew points were in the upper 50s to low 60s. Precipitable water values were quite high for the time of the year with amounts in the 1 to 1.5 inch range. The airmass became quite unstable in the afternoon with CAPE values near 2500 J/kg and lifted indices in the -7 C. range. In spite of the passage of a strong upper level low earlier in the day, rapid destabilization and the approaching cold front allowed for a line of strong thunderstorms to develop. They generally formed in an east to west line across the central sections of the state. The storms produced very heavy rainfall and marginal severe hail. Reports of three quarter inch hail were received with some of the hail up to nickle size. Later on, the thunderstorms produced a lightning strike near Gilman. The lightning struck a tree and blow out the windows in several houses in the area.